IN THE CLAIMS:

A complete listing of the claims is set forth below:

1. (Currently Amended) A method for resource capacity collaboration,

comprising:

accessing an assignment of an item used in producing a product for a customer to

a first resource of a factory factory, associated with a supplier, in a first production period;

accessing a capacity value representing a capacity of the first resource to process

one or more items in the first production period;

accessing a demand value representing a demand placed on the first resource in

the first production period by the assignment of the item to the first resource;

if a demand-capacity mismatch exists with respect to the first resource in that the

demand value exceeds the capacity value, automatically generating a notification if the

demand value exceeds the capacity value; of the demand-capacity mismatch,

automatically communicating the notification to a user associated with the customer;

customer, and allowing the user associated with the customer to reassign reassigning at

least a portion of the demand placed on the first resource in the first production period

to at least one of a second resource and a second production period;

if the demand-capacity mismatch cannot be fully resolved as a result of

reassignment of at least a portion of the demand placed on the first resource of the factory

to at least one of a second resource of the same factory, allowing the user associated with

the customer to reassign at least a portion of the demand to another factory to attempt to

resolve the demand-capacity mismatch; and

if the demand-capacity mismatch cannot be fully resolved as a result of

reassignment of at least a portion of the demand placed on the second resource of the

factory to another factory, allowing the user associated with the customer to reassign at

least a portion of the demand to another supplier to attempt to resolve the demand-

capacity mismatch.

2. (Canceled)

3. **(Currently Amended)** The method of Claim 2, 1, wherein:

the notification is also automatically communicated to at least one of a user

associated with the factory and a user associated with a the supplier;

the reassignment is initiated by at least one of the user associated with the factory

and the user associated with the supplier, respectively;

the reassignment is to a second resource in the same factory if initiated by the user

associated with the factory; and

the reassignment is to a second resource in another factory if initiated by the user

associated with the supplier.

4. (Canceled)

5. (Original) The method of Claim 1, wherein the demand value reflects a

factoring value associated with processing the item using the first resource, the demand

value equaling the factoring value multiplied by a nominal demand value representing a

demand that would be placed on the first resource in processing a standard item.

6. **(Original)** The method of Claim 1, further comprising:

storing a requested capacity value representing a capacity of the first resource

requested by the customer;

storing a committed capacity value representing a capacity of the first resource that

at least one of a user associated with the factory and a user associated with a supplier

agrees to provide the customer; and

generating a notification when the requested capacity value is different than the

committed capacity value.

7. (Original) The method of Claim 6, further comprising:

storing a contracted capacity value representing a maximum capacity of the first

resource that the customer is allowed to request; and

generating a notification when the requested capacity value exceeds the contracted

capacity value.

8. **(Original)** The method of Claim 1, further comprising:

storing an estimated capacity value representing an estimated capacity of the

resource made by the customer; and

generating a notification when the capacity value is different than the estimated

capacity value.

9. (Original) The method of Claim 1, further comprising generating a

notification when the capacity value exceeds the demand value.

10. (Original) The method of Claim 1, wherein the first and second resources

are associated with different factories.

11. (Original) The method of Claim 1, wherein the first and second resources

are associated with different suppliers.

12. (Currently Amended) The method of Claim 1, further comprising:

storing at least one access privilege, the access privilege capable of allowing the

user associated with the customer to view at least a portion of the supplier and factory

supply chain based on the access privilege; and

making the assignment, the capacity value, the demand value, and the notification

available to the a user associated with at least one of the customer, the factory, and a

supplier based on the access privilege.

13. (Currently Amended) The method of Claim 1, wherein at least one

additional resource is associated with the factory, the additional resource operable to

receive and process a second item from the first resource, the method further comprising:

storing a demand value associated with the additional resource, the demand value

for the at least one additional resource based at least partially on the demand value for the

first resource; and

propagating a change in the demand value for the first resource to the demand

value for the at least one additional resource, the change in the demand value for the first

resource resulting in a change in the demand value for the at least one additional

resource.

14. (Currently Amended) The method of Claim 13, further comprising providing

a tree structure to a display of the user in a display, associated with at least one of the

customer, the factory, and the supplier, the tree structure comprising the first resource,

resource of the factory being used to produce the product for the customer, the at least

one additional resource, resource of the factory being used to produce the product for the

customer, the capacity of each resource available to the customer, and at least the

demand values for the first resource and additional resource. that are currently placed on

each resource associated with the production of the product for the customer.

15. (Currently Amended) Software for resource capacity collaboration, the

software embodied in at least one computer-readable medium and when executed

operable to:

accessing an assignment of an item used in producing a product for a customer to

a first resource of a factory factory, associated with a supplier, in a first production period;

accessing a capacity value representing a capacity of the first resource to process

one or more items in the first production period;

accessing a demand value representing a demand placed on the first resource in

the first production period by the assignment of the item to the first resource;

if a demand-capacity mismatch exists with respect to the first resource in that the

demand value exceeds the capacity value, automatically generating a notification if the

demand value exceeds the capacity value; of the demand-capacity mismatch,

automatically communicating the notification to a user associated with the customer;

customer, and allowing the user associated with the customer to reassign reassigning at

least a portion of the demand placed on the first resource in the first production period

to at least one of a second resource and a second production period;

if the demand-capacity mismatch cannot be fully resolved as a result of

reassignment of at least a portion of the demand placed on the first resource of the factory

to at least one of a second resource of the same factory, allowing the user associated with

the customer to reassign at least a portion of the demand to another factory to attempt to

resolve the demand-capacity mismatch; and

if the demand-capacity mismatch cannot be fully resolved as a result of

reassignment of at least a portion of the demand placed on the second resource of the

factory to another factory, allowing the user associated with the customer to reassign at

least a portion of the demand to another supplier to attempt to resolve the demand-

capacity mismatch.

16. (Canceled)

17. **(Currently Amended)** The software of Claim 16, 15, further operable to:

automatically communicate the notification to at least one of a user associated with the factory and a user associated with a the supplier; and

allow at least one of the user associated with the factory and the user associated with the supplier, respectively, to reassign at least a portion of the demand value to a second resource in the same factory or a second resource in another factory, respectively.

18. (Canceled)

19. (Original) The software of Claim 15, wherein the demand value reflects a

factoring value associated with processing the item using the first resource, the demand

value equaling the factoring value multiplied by a nominal demand value representing a

demand that would be placed on the first resource in processing a standard item.

20. (Original) The software of Claim 15, further operable to:

store a requested capacity value representing a capacity of the first resource requested by the customer;

store a committed capacity value representing a capacity of the first resource that at least one of a user associated with the factory and a user associated with a supplier agrees to provide the customer; and

generate a notification when the requested capacity value is different than the committed capacity value.

21. (Original) The software of Claim 20, further operable to:

store a contracted capacity value representing a maximum capacity of the first

resource that the customer is allowed to request; and

generate a notification when the requested capacity value exceeds the contracted

capacity value.

22. (Original) The software of Claim 15, further operable to:

store an estimated capacity value representing an estimated capacity of the

resource made by the customer; and

generate a notification when the capacity value is different than the estimated

capacity value.

23. (Original) The software of Claim 15, further operable to generate a

notification when the capacity value exceeds the demand value.

24. (Original) The software of Claim 15, wherein the first and second resources

are associated with different factories.

(Original) The software of Claim 15, wherein the first and second resources

are associated with different suppliers.

26. (Currently Amended) The software of Claim 15, further operable to:

store at least one access privilege, the access privilege capable of allowing the

user associated with the customer to view at least a portion of the supplier and factory

supply chain based on the access privilege; and

make the assignment, the capacity value, the demand value, and the notification

available to the a user associated with one of the customer, the factory, and the supplier

based on the access privilege.

27. (Currently Amended) The software of Claim 15, wherein:

at least one additional resource is associated with the factory, the at least one

additional resource operable to receive and process a second item from the first resource;

and

the software is further operable to:

store a demand value associated with the at least one additional resource,

the demand value for the at least one additional resource based at least partially on the

demand value for the first resource; and

propagate a change in the demand value for the first resource to the

demand value for the at least one additional resource, the change in the demand value for

the first resource resulting in a change in the demand value for the at least one additional

resource.

28. (Currently Amended) The software of Claim 27, further operable to provide

a tree structure to a display of the user in a display, associated with at least one of the

customer, the factory, and the supplier, the tree structure comprising the first resource,

resource of the factory being used to produce the product for the customer, the at least

one additional resource, resource of the factory being used to produce the product for the

customer, the capacity of each resource available to the customer, and at least the

demand values for the first resource and additional resource. that are currently placed on

each resource associated with the production of the product for the customer.

29. (Currently Amended) A system for resource capacity collaboration,

comprising:

a memory operable to store:

an assignment of an item used in producing a product for a customer to a

first resource of a factory factory, associated with a supplier, in a first production period;

a capacity value representing a capacity of the first resource to process one

or more items in the first production period;

a demand value representing a demand placed on the first resource in the

first production period by the assignment of the item to the first resource;

one or more processors collectively operable to:

if a demand-capacity mismatch exists with respect to the first

resource in that the demand value exceeds the capacity value, automatically generate a

notification if the demand value exceeds the capacity value; of the demand-capacity

mismatch, automatically communicate the notification to a user associated with the

customer; customer, and allow the user associated with the customer to reassign at least

a portion of the demand placed on the first resource in the first production period to at least

one of a second resource and a second production period:

if the demand-capacity mismatch cannot be fully resolved as a result

of reassignment of at least a portion of the demand placed on the first resource of the

factory to at least one of a second resource of the same factory, allowing the user

associated with the customer to reassign at least a portion of the demand to another

factory to attempt to resolve the demand-capacity mismatch; and

if the demand-capacity mismatch cannot be fully resolved as a result

of reassignment of at least a portion of the demand placed on the second resource of the

factory to another factory, allowing the user associated with the customer to reassign at

least a portion of the demand to another supplier to attempt to resolve the demand-

capacity mismatch.

30. (Canceled)

31. (Currently Amended) The system of Claim 30, 29, wherein the processors

are further operable to:

automatically communicate the notification to at least one of a user associated with

the factory and a user associated with a the supplier; and

allow at least one of the user associated with the factory and the user associated

with the supplier, respectively, to reassign at least a portion of the demand value to a

second resource in the same factory or a second resource in another factory, respectively.

32. (Canceled)

33. (Original) The system of Claim 29, wherein the demand value reflects a

factoring value associated with processing the item using the first resource, the demand

value equaling the factoring value multiplied by a nominal demand value representing a

demand that would be placed on the first resource in processing a standard item.

34. (Original) The system of Claim 29, wherein:

the memory is further operable to:

store a requested capacity value representing a capacity of the first resource

requested by the customer; and

store a committed capacity value representing a capacity of the first

resource that at least one of a user associated with the factory and a user associated with

a supplier agrees to provide the customer; and

the processors are further operable to generate a notification when the requested

capacity value is different than the committed capacity value.

35. (Original) The system of Claim 34, wherein:

the memory is further operable to store a contracted capacity value representing a

maximum capacity of the first resource that the customer is allowed to request; and

the processors are further operable to generate a notification when the requested

capacity value exceeds the contracted capacity value.

36. **(Original)** The system of Claim 29, wherein:

the memory is further operable to store an estimated capacity value representing

an estimated capacity of the resource made by the customer; and

the processors are further operable to generate a notification when the capacity

value is different than the estimated capacity value.

37. (Original) The system of Claim 29, wherein the processors are further

operable to generate a notification when the capacity value exceeds the demand value.

38. (Original) The system of Claim 29, wherein the first and second resources

are associated with different factories.

39. (Original) The system of Claim 29, wherein the first and second resources

are associated with different suppliers.

40. (Currently Amended) The system of Claim 29, wherein:

the memory is further operable to store at least one access privilege, the access

privilege capable of allowing the user associated with the customer to view at least a

portion of the supplier and factory supply chain based on the access privilege; and

the processors are further operable to make the assignment, the capacity value, the

demand value, and the notification available to the a user associated with one of the

customer, the factory, and the supplier based on the access privilege.

41. (Currently Amended) The system of Claim 29, wherein:

at least one additional resource is associated with the factory, the at least one

additional resource operable to receive and process a second item from the first resource;

the memory is further operable to store a demand value associated with the at least

one additional resource, the demand value for the at least one additional resource based

at least partially on the demand value for the first resource; and

the processors are further operable to propagate a change in the demand value for

the first resource to the demand value for the <u>at least one</u> additional resource, the change

in the demand value for the first resource resulting in a change in the demand value for the

at least one additional resource.

42. (Currently Amended) The system of Claim 41, wherein the processor is

further operable to provide a tree structure to <u>a display of</u> the user in a display, <u>associated</u>

with at least one of the customer, the factory, and the supplier, the tree structure

comprising the first resource, resource of the factory being used to produce the product for

the customer, the at least one additional resource, resource of the factory being used to

produce the product for the customer, the capacity of each resource available to the

customer, and at least the demand values for the first resource and additional resource.

that are currently placed on each resource associated with the production of the product

for the customer.

43. (Original) A method for resource capacity collaboration, comprising:

accessing an assignment of a particular item used in producing a product for a

particular customer to a particular first resource of a particular factory associated with a

particular supplier in a first production period, the first resource operable to perform at least

one processing step involving the particular item;

accessing a capacity value representing a capacity of the first resource to process

one or more items in the first production period;

accessing a demand value representing a demand placed on the first resource in

the first production period by the assignment of the particular item to the first resource;

if a demand-capacity mismatch exists with respect to the first resource in that the

demand value exceeds the capacity value, automatically generating a notification in

response to the demand-capacity mismatch;

automatically communicating the notification to a user associated with the factory, a

user associated with the supplier, and a user associated with the customer;

allowing the user associated with the factory to reassign at least a portion of the

demand to at least one of a second resource of the same factory and a second production

period to attempt to resolve the demand-capacity mismatch;

if the demand-capacity mismatch cannot be fully resolved as a result of

reassignment by the user associated with the factory, allowing the user associated with the

supplier to reassign at least a portion of the demand to another factory also associated

with the supplier to attempt to resolve the demand-capacity mismatch; and

if the demand-capacity mismatch cannot be fully resolved as a result of

reassignment by the user associated with the supplier, allowing the user associated with

the customer to reassign at least a portion of the demand to another supplier to attempt to

resolve the demand-capacity mismatch.

44. (Original) Software for resource capacity collaboration, the software being

embodied in at least one computer-readable medium and when executed operable to:

access an assignment of a particular item used in producing a product for a

particular customer to a particular first resource of a particular factory associated with a

particular supplier in a first production period, the first resource operable to perform at least

one processing step involving the particular item;

access a capacity value representing a capacity of the first resource to process one

or more items in the first production period;

access a demand value representing a demand placed on the first resource in the

first production period by the assignment of the particular item to the first resource;

if a demand-capacity mismatch exists with respect to the first resource in that the

demand value exceeds the capacity value, automatically generate a notification in

response to the demand-capacity mismatch;

automatically communicate the notification to a user associated with the factory, a

user associated with the supplier, and a user associated with the customer;

allow the user associated with the factory to reassign at least a portion of the

demand to at least one of a second resource of the same factory and a second production

period to attempt to resolve the demand-capacity mismatch;

if the demand-capacity mismatch cannot be fully resolved as a result of

reassignment by the user associated with the factory, allow the user associated with the

supplier to reassign at least a portion of the demand to another factory also associated

with the supplier to attempt to resolve the demand-capacity mismatch; and

if the demand-capacity mismatch cannot be fully resolved as a result of

reassignment by the user associated with the supplier, allow the user associated with the

customer to reassign at least a portion of the demand to another supplier to attempt to

resolve the demand-capacity mismatch.

45. (Original) A system for resource capacity collaboration, comprising:

a memory operable to store:

an assignment of a particular item used in producing a product for a

particular customer to a particular first resource of a particular factory associated with a

particular supplier in a first production period, the first resource operable to perform at least

one processing step involving the particular item;

a capacity value representing a capacity of the first resource to process one

or more items in the first production period;

a demand value representing a demand placed on the first resource in the

first production period by the assignment of the particular item to the first resource;

one or more processors collectively operable to:

if a demand-capacity mismatch exists with respect to the first

resource in that the demand value exceeds the capacity value, automatically generate a

notification in response to the demand-capacity mismatch;

automatically communicate the notification to a user associated with

the factory, a user associated with the supplier, and a user associated with the customer;

allow the user associated with the factory to reassign at least a

portion of the demand to at least one of a second resource of the same factory and a

second production period to attempt to resolve the demand-capacity mismatch;

if the demand-capacity mismatch cannot be fully resolved as a result

of reassignment by the user associated with the factory, allow the user associated with the

supplier to reassign at least a portion of the demand to another factory also associated

with the supplier to attempt to resolve the demand-capacity mismatch; and

if the demand-capacity mismatch cannot be fully resolved as a result

of reassignment by the user associated with the supplier, allow the user associated with

the customer to reassign at least a portion of the demand to another supplier to attempt to

resolve the demand-capacity mismatch.

46. (Original) A method for resource capacity collaboration, comprising:

accessing an estimated capacity value representing a customer-estimated capacity

of a first resource of a factory used in producing a product for the customer, the first

resource operable to perform at least one processing step in producing the product;

accessing a contracted capacity value representing a maximum capacity of the first

resource that the customer is allowed to request;

accessing a requested capacity value representing a capacity of the first resource

requested by the customer to be used in producing the product for the customer;

accessing a committed capacity value representing a capacity of the first resource

that at least one of a user associated with the factory and a user associated with a supplier

agrees to provide the customer;

accessing an assignment of an item used in producing the product to the first

resource;

accessing a capacity value representing a capacity of the first resource to process

one or more items in a first production period;

accessing a demand value representing a demand placed on the first resource in

the first production period by the assignment of the item to the first resource;

automatically generating a notification in response to a circumstance selected from

the group consisting of:

the requested capacity value being different than the committed capacity

value;

the requested capacity value exceeding the contracted capacity value;

the capacity value being different than the estimated capacity value; and

the capacity value exceeding the demand value;

automatically communicating the notification to a user associated with the

customer, the user associated with the supplier, and the user associated with the factory;

and

allowing at least one of the users to resolve the circumstance in response to the

notification.

47. (Original) Software for resource capacity collaboration, the software being

embodied in at least one computer-readable medium and when executed operable to:

access an estimated capacity value representing a customer-estimated capacity of

a first resource of a factory used in producing a product for the customer, the first resource

operable to perform at least one processing step in-producing the product;

access a contracted capacity value representing a maximum capacity of the first

resource that the customer is allowed to request;

access a requested capacity value representing a capacity of the first resource

requested by the customer to be used in producing the product for the customer;

access a committed capacity value representing a capacity of the first resource that

at least one of a user associated with the factory and a user associated with a supplier

agrees to provide the customer;

access an assignment of an item used in producing the product to the first

resource;

access a capacity value representing a capacity of the first resource to process one

or more items in a first production period;

access a demand value representing a demand placed on the first resource in the

first production period by the assignment of the item to the first resource;

automatically generate a notification in response to a circumstance selected from

the group consisting of:

the requested capacity value being different than the committed capacity

value;

the requested capacity value exceeding the contracted capacity value;

the capacity value being different than the estimated capacity value; and

the capacity value exceeding the demand value;

automatically communicate the notification to a user associated with the customer,

the user associated with the supplier, and the user associated with the factory; and

allow at least one of the users to resolve the circumstance in response to the notification.

48. (Original) A system for resource capacity collaboration, comprising:

a memory operable to store:

an estimated capacity value representing a customer-estimated capacity of

a first resource of a factory used in producing a product for the customer, the first resource

operable to perform at least one processing step in producing the product;

a contracted capacity value representing a maximum capacity of the first

resource that the customer is allowed to request;

a requested capacity value representing a capacity of the first resource

requested by the customer to be used in producing the product for the customer;

a committed capacity value representing a capacity of the first resource that

at least one of a user associated with the factory and a user associated with a supplier

agrees to provide the customer;

an assignment of an item used in producing the product to the first resource;

a capacity value representing a capacity of the first resource to process one

or more items in a first production period;

a demand value representing a demand placed on the first resource in the

first production period by the assignment of the item to the first resource;

one or more processors collectively operable to:

automatically generate a notification in response to a circumstance

selected from the group consisting of the requested capacity value being different than the

committed capacity value, the requested capacity value exceeding the contracted capacity

value, the capacity value being different than the estimated capacity value, and the

capacity value exceeding the demand value;

automatically communicate the notification to a user associated with

the customer, the user associated with the supplier, and the user associated with the

factory; and

allow at least one of the users to resolve the circumstance in

response to the notification.